

INFORMATION DISCLOSURE CITATION  PTO-1449	ATTY. DOCKET NO. 20676-712	SERIAL NO. 09/204,863
	APPLICANT Leisten	MAR 27 2000 PTENT & TRADEMARK OFFICE U.S. DEPARTMENT OF COMMERCE O I P E JCS
	FILING DATE December 3, 1998	

## U.S. PATENT DOCUMENTS

EXAMINER'S INITIALS	PATENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE
T.H.	2,575,377	11/20/51	Wohl	343	895	—
	2,763,003	9/11/56	Harris	343	895	—
	3,611,198	10/5/71	Ma	333	006	—
	3,633,210	1/04/72	Westerman	343	895	—
	3,906,509	9/16/75	DuHamel	343	895	—
	3,940,772	2/24/76	Ben-dov	343	853	—
	4,008,478	2/15/77	Ikarath et al.	343	720	—
	4,008,479	2/15/77	Smith	343	895	—
	4,114,164	9/12/78	Greiser	343	895	—
	4,148,030	4/3/79	Foldes	343	895	—
T.H.	4,160,979	7/10/79	Drewett	343	788	—

## FOREIGN PATENT DOCUMENTS

EXAMINER'S INITIALS	PATENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION
						YES NO
T.H.	0 051 018 B1	03/07/85	Europe	—	—	
T.H.	0 320 404 B1	14/06/89	Europe	—	—	
T.H.	0 429 255 A2	29/05/91	Europe	—	—	
T.H.	0 465 658 A1	15/01/92	Europe	—	—	
T.H.	0 469 741 A1	05/02/92	Europe	—	—	Y

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

T.H.	Nakano, H., "Helical and Spiral Antennas -- A Numerical Approach", <i>Research Studies Press Ltd.</i> , England, pp. 1-261 (1987).
T.H.	Krall et al., <i>IEEE Transactions on Antennas and Propagation</i> , Vol. AP-27, No. 6, Nov. 1979, pp. 850-853.
T.H.	Casey, J. et al., "Square Helical Antenna with a Dielectric Core", <i>IEEE Transactions on Electromagnetic Compatibility</i> , Vol. 30, No. 4, Nov. 1988, pp. 429-436.

EXAMINER	Tanfo	DATE CONSIDERED	6/28/00
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	APPLICANT Leisten	O I P E J C S MAR 27 2000 PATENT & TRADEMARK OFFICE 65 U.S. GOVERNMENT
	FILING DATE December 3, 1998	
	GROUP 2821	

## U.S. PATENT DOCUMENTS

EXAMINER'S INITIALS	PATENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE
T.H.	4,168,479	9/18/79	Rubin	333	126	—
	4,204,212	5/20/80	Sindoris et al.	343	700MS	—
	4,270,128	5/26/81	Drewett	343	702	—
	4,323,900	4/06/82	Krall et al.	343	700MS	—
	4,329,689	5/11/82	Yee	343	700MS	—
	4,349,824	9/14/82	Harris	343	700MS	—
	4,442,438	4/10/84	Siwiak et al.	343	792	—
	4,608,572	8/26/86	Blakney et al.	343	792.5	—
✓	4,608,574	8/26/86	Webster et al.	343	895	—
T.H.	4,697,192	9/29/87	Hofer et al.	343	895	—

## FOREIGN PATENT DOCUMENTS

EXAMINER'S INITIALS	PATENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO
T.H.	0 521 511 A2	07/01/93	Europe	—	—	Y	
T.H.	0 588 465 A1	23/03/94	Europe	—	—	Y	
T.H.	0 590 534 A1	06/04/94	Europe	—	—	Y	
T.H.	0 241 921 A1	21/10/87	Europe	—	—	N	
T.H.	0 791 978 A2	27/08/97	Europe	—	—	Y	
T.H.	8-8408	08/01/96	Japan	—	—	N	
T.H.	3-274904	03/12/91	Japan	—	—	N	
T.H.	7-249973	07/09/95	Japan	—	—	N	
T.H.	1483-511	30/05/89	U.S.S.R.	—	—	N	

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

T.H.	Espeignol, J. et al., "Duplexeur A Resonateurs Dielectriques En Bande K", 6es Journees Nationales Microondes, Montpellier, Jun. 21-23, 1989, Centre D'Electronique De Montpellier, pp. 321-322.

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	GROUP 2821	

## U.S. PATENT DOCUMENTS

EXAMINER'S INITIALS	PATENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE
T.H.	4,706,049	11/10/87	Dydyk	333	110	—
↑	4,862,184	8/29/89	Ploussios	343	745	—
	4,902,992	2/20/90	Rubin et al.	333	126	—
	4,910,481	3/20/90	Sasaki et al.	333	134	—
	4,940,992	7/10/90	Nguyen et al.	343	803	—
	4,980,694	12/25/90	Hines	343	702	—
	5,019,829	5/28/91	Heckman et al.	343	700MS	—
	5,023,866	6/11/91	De Muro	333	205	—
	5,055,852	10/8/91	Dusseux et al.	343	725	—
✓	5,081,469	1/14/92	Bones	343	895	—
T.H.	5,099,249	3/24/92	Seavey	343	700MS	—

## FOREIGN PATENT DOCUMENTS

EXAMINER'S INITIALS	PATENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION
						YES NO
T.H.	2,570,546 A1 ✓	21/03/86	France	—	—	✓
↑	2,603,743 ✓	11/03/88	France	—	—	✓
	2 311 675 A -	01/10/97	Great Britain	—	—	✗
	2 292 257 A ✓	14/02/96	Great Britain	—	—	✗
	2 292 638 A ✓	28/02/96	Great Britain	—	—	✗
	1,198,410 ✓	15/07/70	Great Britan	—	—	✗
✓	1,568,436 ✓	29/05/80	Great Britan	—	—	✗
T.H.	2,196,483 B ✓	27/04/88	Great Britan	—	—	✗

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

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## U.S. PATENT DOCUMENTS

EXAMINER'S INITIALS	PATENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE
T.H.	5,134,422	7/28/92	Auriol	343	895	—
↑	5,170,176	12/8/92	Yasunaga et al.	343	895	—
	5,170,493	12/8/92	Roth	455	82	—
	5,255,005	10/19/93	Terret et al.	343	895	—
	5,258,728	11/02/93	Taniyoshi et al.	333	132	—
	5,281,934	1/25/94	Shiau et al.	333	134	—
	5,298,910	3/29/94	Takei et al.	343	895	—
	5,329,287	7/12/94	Strickland	343	752	—
↓	5,341,149	8/23/94	Valimaa et al.	343	895	—
T.H.	5,345,248	9/06/94	Hwang et al.	343	895	—

## FOREIGN PATENT DOCUMENTS

EXAMINER'S INITIALS	PATENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO
T.H.	2 202 380 A /	21/09/88	Great Britan	—	—	Y	
T.H.	2 246 910 A /	12/02/92	Great Britan	—	—	Y	
T.H.	UK 762,415 /	28/11/56	Great Britan	—	—	N	
T.H.	UK 840850 /	13/07/60	Great Britan	—	—	Y	
T.H.	WO 91/11038 /	25/07/91	PCT	—	—	N	
T.H.	WO 92/05602	02/04/92	PCT	—	—	Y	
T.H.	WO 92/17915	15/10/92	PCT	—	—	Y	
T.H.	WO 93/22804	11/11/93	PCT	—	—	Y	
T.H.	WO 94/27338	24/11/94	PCT	—	—	Y	

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EXAMINER'S INITIALS	PATENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE
T.H.	5,346,300	9/13/94	Yamamoto et al.	343	895	—
	5,349,361	9/20/94	Egashira et al.	343	715	—
	5,349,365	9/20/94	Ow et al.	343	895	—
	5,406,296	4/11/95	Egashira et al.	343	715	—
	5,406,693	4/18/95	Egashira et al.	343	895	—
	5,450,093	9/12/95	Kim	343	895	—
	5,479,180	12/26/95	Lenzing et al.	343	729	—
	5,541,613	7/30/96	Lam et al.	343	895	—
	5,548,255	8/20/96	Spielman	333	132	—
	5,612,707	3/18/97	Vaughan et al.	343	895	—
	5,748,154	5/5/98	Yokota	343	702	—
	5,854,608	12/29/98	Leisten	343	895	—
	5,859,621	1/12/99	Leisten	343	895	—
	5,945,963	8/31/99	Leisten	343	895	—
T.H.	5,963,180	10/5/99	Leisten	343	895	—

## FOREIGN PATENT DOCUMENTS

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						YES NO
T.H.	WO 96/06468	29/02/96	PCT	—	—	Y
T.H.	2 310 543 A	27/08/97	Great Britain	—	—	Y
T.H.	2 317 057 A	11/03/98	Great Britain	—	—	Y
T.H.	2 321 785 A	05/08/98	Great Britain	—	—	Y
T.H.	2 326 532 A	23/12/98	Great Britain	—	—	Y

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EXAMINER'S INITIALS	PATENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION
						YES
T.H.	2 243 724 B	06/11/91	Great Britain	—	—	Y
	2 248 344 B	01/04/92	Great Britain	—	—	Y
	2 309 592 A	30/07/97	Great Britain	—	—	Y
	WO 94/21001	15/09/94	PCT	—	—	Y
	WO 97/27642	31/07/97	PCT	—	—	Y
	WO 98/24144	04/06/98	PCT	—	—	Y
	3217437 A1	10/11/83	Germany	—	—	N
	0 198 578 A1	22/10/86	Europe	—	—	Y
	0 332 139 A3	13/09/89	Europe	—	—	Y
	0 588 271 A1	23/03/94	Europe	—	—	Y
	0 652 645 A1	10/05/95	Europe	—	—	N
T.H.	0 777 293 A1	04/06/97	Europe	—	—	Y
<b>OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)</b>						
EXAMINER	Tan Gao		DATE CONSIDERED	6/26/00		

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